FMCSA Specifications for Federal Procurements Of Field Portable Computers and Peripherals

Updated: 5/30/2007 9:08 AM CLF

This document provides specifications for FMCSA procurements of portable computer and peripheral hardware for field use. These specifications must be followed for all FMCSA procurements that meet the definitions below. The specifications in this document are updated two-to-four times per year and upon request.

If you have any questions regarding these specifications, please contact Jeff Hall or Janet Curtis with the FMCSA Systems Development Team.

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FIELD LAPTOPS (Updated 3/05/2007)

This specification will be used for procuring laptops for use in conducting Compliance Reviews, Safety Audits, and Inspections. FMCSA no longer utilizes a separate specification for Inspection laptops. This is a three spindle laptop, with integrated hard drive, CD drive, and floppy drive.

Panasonic ToughBook 51

- CF-51PFVGEBM
- o Intel® Core™ Duo Processor 2500 2.0GHz
- 512MB SDRAM standard, expandable to 4GB recommend 1024MB+
- o 15" 1600 x 1200 (UXGA) TFT Active Matrix Color LCD
- 80GB HDD (shock-mounted & easily removable)
- 1.44MB FDD Standard (integrated)
- DVD-ROM/CD-RW Standard
- o Electrostatic touchpad with scrolling support
- o Intel PRO/Wireless 2200BG network connection 802.11a/b/g
- o 56K modem (integrated) & 10/100/1000 Ethernet card (integrated)
- o Two USB 2.0 ports and one1394 Firewire port
- o PC CardType II x2 or Type III x1, Secure Digital (SD) Card
- o 6.8 lbs, including battery, 1.9"(H) x 10.9"(D) x 12.8"(W)
- Windows XP SP2 Operating System
- o 3 year warranty
- Additional information:

ftp://ftp.panasonic.com/pub/panasonic/toughbook/specsheets/TB-51_ss.pdf

o Estimated price \$2581.00



- Panasonic Accessories
 - Port ReplicatorAC Adapter (for Port Replicator)
 - ToughMate always on carrying case

CF-VEB512W

CF-AA1683AM

CF-FM5051

- Additional Accessories
 - Super Mini Optical Mouse USB w/ PS/2 AD

ACC-MS15000

MANAGER LAPTOPS (Updated 3/06/2007)

This specification is for a lightweight laptop for use primarily for e-mail, scheduling, address book information, and minimal word processing. Although the specified unit can be used for much more, the trade-off for going with a lightweight unit is a decrease in ease-of-use. If a manager feels he/she will be running CAPRI, ASPEN, CaseRite, or performing a great deal of word processing, we recommend procuring the standard SI laptop.

Panasonic Toughbook W5

CF-W5LWEZZBM

- o CPU Intel Core Solo 1.2GHz, L2 Cache, 553 MHz FSB
- Weight 2.9 lbs
- o RAM 512 MB (expandable to 1536MB) recommend 1024MB+
- HDD 60 GB shock mounted
- NIC Integrated 56k modem and 10/100 network interface card
- Wireless Integrated Intel® PRO/Wireless 2915 802.11 a/b/g
- Optical Drive Integrated Combo DVD-ROM/CD-RW Drive
- Display 12.1" 1024 x 768 XGA anti-glare 128MB VRAM
- External video support for 2048 x 1536
- USB Two 2.0 ports
- PC Card Type II x 1
- Keyboard/Mouse 83 key, Electrostatic touchpad -vertical scrolling
- Warranty 3 year limited, parts & labor
- Case Full Magnesium Alloy Case
- OS Windows XP
- Additional information: ftp://ftp.panasonic.com/pub/Panasonic/toughbook/specsheets/TB-W5_ss.pdf
- Estimated price \$2000.00



- Panasonic W5 accessories (required to make this a complete solution)
 - External USB Floppy Drive

CF-VFDU03W

AC Adapter

CF-AA1623AM

- Additional Accessories
 - Pocketmouse Mini Wireless

72229

- Panasonic W5 accessories (required to make this a complete solution)
 - o 512 MB RAM upgrade (512 total)

CF-WMBAV0512U

RUGGED TABLET PC (Updated 6/08/2006)

This specification will be used for procuring laptops for use in conducting Compliance Reviews, Safety Audits, and Inspections. Although the specified unit can be used for much more, the trade-off for going with a lightweight unit is a decrease in ease-of-use. For the Rugged ability this unit must be used with the Otterbox.

- Fujitsu Stylistic ST5031 with OtterBox 4600 Tablet Case
 - o CPU Ultra Low Voltage Intel® Pentium® M Processor 1.2MHz
 - o Weight − 3.5 lbs
 - o RAM 512MB (SDRAM)
 - o HDD 60 GB shock mounted
 - o NIC Integrated 56k modem and 10/100/1000 network interface card
 - Wireless 802.11b
 - o Display 10.4" XGA TFT Indoor/Outdoor
 - o USB Two 2.0 ports
 - o PC Card one type I or II
 - Warranty 3 year limited, parts & labor
 - o Case Rugged
 - OS Windows XP Tablet PC Edition 2005
 - Additional information: http://www.computers.us.fujitsu.com/www/products_pentablets.shtml?products/pentablets/tech_specs/st5030_31_32_ts
 - Estimated price \$2449.00



 OtterBox PC Case FPCCC54: http://www.otterbox.com/products/pc_cases/tablet/index.htm

PORTABLE PRINTER (Updated 3/08/2007)

This specification is to be used for both investigators and inspectors. Portable printers are procured and serviced for investigators and inspectors through the FMCSA Technical Support hotline.

HP Deskjet 460 Series (WT or WBT)

C8152A

- o WT = 802.11 wireless / WBT = Bluetooth
- Both units come with a 2300mAH Lithium ion battery (5lbs)
- o Speed: Up to 17 ppm in black / 16 ppm in color
- o Resolution: Black 1200 x 1200 dpi; Color 4800 x 1200 dpi
- Compatibility: Windows® Vista/XP/Me/2000/98/4.0 and MAC OS 10x (*Note: This unit is not DOS compatible)?
- Wireless printing: 802.11, and / or Bluetooth (depending on model or optional adapter)
- Sheet feeder: 50 sheets, integrated
- Interfaces include USB 2.0, CompactFlash, Multimedia, Secure Digital, PictBridge, 802.11 and or Bluetooth
- o 32MB RAM
- o 4.6 lbs
- Additional information:
- o http://h10010.www1.hp.com/wwpc/us/en/sm/WF06b/18972-236251-236267-14438-236267-466639-466642-466643.html
- USB cable included
- Estimated price \$350.00



Accessories:

HP 802.11g printer card
 HP Bluetooth printer card
 HP compact carrying case
 CB001A#A2L
 CB004A
 C8242A

4-IN-1 MULTI-FUNCTION PRINTER (Updated 3/06/2006)

This specification should be used when procuring an all-in-one device for telecommuters. This is a desktop printer, fax, and scanner. The unit specified is not portable. Cables are procured separately. 4-in-1 printers are procured and serviced locally.

- HP OfficeJet 7410
 - Color Print/Copy/Scan/Fax
 - Connectivity USB, Ethernet, 802.11b Wireless, PictBridge
 - o RAM 96mb
 - o Printer Color inkjet, up to 30 ppm, 4800x1200 dpi resolution
 - Print Media Paper (plain, inkjet, photo, banner), envelopes, transparencies, labels, cards, HP Premium Media, iron-on transfers, borderless media, panoramic media, banners
 - Fax speed– 3 seconds per page, Color, 150 page memory
 - o Scanner 2400x4800 dpi, 48 bit color
 - Copier Up to 30 pages per minute (black and white)/20 pages per minute color
 - Weight 31.3 .lbs
 - For additional information:
 http://h71016.www7.hp.com/dstore/MiddleFrame.asp?page=config&ProductLineId=4
 94&FamilyId=1371&BaseId=12607&oi=E9CED&BEID=19701&SBLID=
 - o Estimated price \$499.00



PORTABLE SCANNER (Updated 5/25/2007)

This specification will be used when procuring portable scanners for use by investigators and inspectors.

- Plustek OpticSlim M12 Corperate
 - o Connectivity USB (powered by USB)
 - o Resolution 600x600 dpi
 - o Scanner bit depth (color) 48-bit
 - Weight 11.6 oz
 - o Dimensions 10.8" x 1.9" x 1.3"
 - Software includes:
 - Readiris Pro 10
 - PageManager 6.07
 - ImageFolio 4
 - o OS Win 98SE/2000/ME/XP
 - Additional information: http://www.plustek.com/product/m12_corp.asp
 - o Estimated price \$299



DIGITAL CAMERA (Updated 8/08/2006)

This specification will be used when procuring digital cameras for use by investigators and inspectors. A digital camera is an excellent tool for documenting violations such as a cracked trailer frame.

- Canon PowerShot S80
 - Resolution 8 Megapixel
 - o Zoom Wide Angle 3.6x optical / 4x Digital / 14x combined
 - o 21 shooting modes
 - Macro function
 - o Body All metal
 - o Lens cover Sliding door built into body
 - o Flash Built in
 - o Battery Lithium ion, rechargeable NB-2LH
 - Weight 7.94 oz for camera body only
 - o Connectivity USB 2.0
 - Storage media SD memory card, multimedia card
 - Software includes:
 - Drivers & Utilities
 - Canon PhotoStitch
 - Canon ZoomBrowser EX
 - ArcSoft PhotoImpression
 - ArcSoft VideoImpression
 - Canon ImageBrowser
 - Canon Remote Capture
 - PC Requirements:
 - Operating System Windows 98, ME, 2000, XP
 - Built-in USB ports
 - CPU Pentium 150 or faster, 300 or faster (XP)
 - RAM 128 MB for XP, 64 MB for other OS
 - o Additional information
 - http://www.usa.canon.com/consumer/controller?act=ModelTechSpecsAct&fc ategoryid=144&modelid=12074
 - Estimated price \$499.00



- Recommended accessories for digital camera
 - o SD memory card 512 MB
 - o Canon soft case (PSC-30)

PERSONAL DIGITAL ASSISTANT (PDA)

FMCSA has established three specifications for handheld computer devices. The first is for use by managers solely as a personal information management tool and is referred to as the "Manager PDA." The unit is small and lightweight, but lacks expandability. The second unit is for use by field personnel in conducting enforcement activities such as driver/vehicle inspections and is referred to as the "Field Activity PDA." This unit is somewhat larger, heavier and expensive, but is much more flexible, expandable, and has integrated wireless LAN connectivity. The third is for personnel that need a PDA with a built-in keyboard for more text entry. This is referred to as the "Expanded Manager PDA."

MANAGER PDA (Updated 8/09/2006)

- Dell Axim X51 520Mhz
 - Processor PCA270 520Mhz
 - o Memory 64 MB SDRAM 128MB Flash ROM
 - Operating system MS Windows® Mobile™ 5.0
 - Weight 4.9 oz
 - o Dimensions 4.7 x 2.9 x .7 in
 - Expansion slot 1 CompactFlash Type II and 1 SD
 - o Display Transflective 3.5" TFT with LED backlight, 65K colors 16-bit, 240x320 resolution
 - Input type Pen and touch 5-way navigation button
 - External input/output ports Bluetooth, 802.1b Wireless, IR, Cradle/Synch/Power Port, 3.5mm audio
 - Software Media Player 10 Mobile Includes Calendar, Contacts, Tasks, Voice Recorder, Notes, Word Mobile, Excel Mobile, PowerPoint Mobile, Internet Explorer Mobile, Windows Media Player 10 Mobile, Calculator, Pictures, Jawbreaker, Solitaire, Messaging, File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, Memory, Volume control, Landscape Mode support, WPA (Wi-Fi Protected Access); Bluetooth utility, Certificates Manager, Password setting, Today theme tool, Download Agent
 - Additional hardware included USB synchronization cable, AC adapter, battery, charger adapter, 3.5mm audio adapter
 - Warranty 1 year
 - Additional informationhttp://www.dell.com/content/products/productdetails.aspx/axim_x51_520?c=us&cs=04&l=en&s=bsd
 - o Estimated price \$399.00 Sale: \$299.00



- Recommended accessories for Dell Axim X51
 - o 2200mAH second longer life battery
 - Rhinoskin aluminum hardcase

FIELD-ACTIVITY PDA (Updated 8/09/2006)

- Dell Axim X51v
 - Security Wireless Security
 - Wireless IrDA, Bluetooth, IEEE 802.11b
 - o Processor Intel® 624 MHz
 - Memory 64MB RAM 256MB Flash ROM
 - Operating System Windows Mobile 5.0
 - o Weight 6.2 oz
 - Dimensions 4.7" x 2.9" x .7"
 - Expansion slot SD and CF slots
 - Display 3.7" transflective VGA TFT display, portrait and landscape modes, LED backlight with power save mode
 - o Input type Stylus, Touch-screen
 - Software Media Player 10 Mobile Includes Calendar, Contacts, Tasks, Voice Recorder, Notes, Word Mobile, Excel Mobile, PowerPoint Mobile, Internet Explorer Mobile, Windows Media Player 10 Mobile, Calculator, Pictures, Jawbreaker, Solitaire, Messaging, File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, Memory, Volume control, Landscape Mode support, WPA (Wi-Fi Protected Access); Bluetooth utility, Certificates Manager, Password setting, Today theme tool, Download Agent
 - Additional hardware included Docking cradle, AC adapter, stylus
 - Additional information –
 http://www1.us.dell.com/content/products/productdetails.aspx/axim_x51v?c= us&cs=19&l=en&s=dhs&~tab=viewstab#tabtop
 - Estimated price \$499.00

Sale \$374.00



- Recommended accessories for Dell Axim X51
 - o 2200mAH second longer life battery
 - o Rhinoskin aluminum hardcase

EXPANDED MANAGER PDA (Updated 8/09/2006)

Dell Axim X51v

- Security Wireless Security
- o Wireless IrDA, Bluetooth, IEEE 802.11b
- o Processor Intel® 624 MHz
- Memory 64MB RAM 256MB Flash ROM
- Operating System Windows Mobile 5.0
- o Weight 6.2 oz
- Dimensions 4.7" x 2.9" x .7"
- Expansion slot SD and CF slots
- Display 3.7" transflective VGA TFT display, portrait and landscape modes, LED backlight with power save mode
- o Input type Stylus, Touch-screen
- Software Media Player 10 Mobile Includes Calendar, Contacts, Tasks, Voice Recorder, Notes, Word Mobile, Excel Mobile, PowerPoint Mobile, Internet Explorer Mobile, Windows Media Player 10 Mobile, Calculator, Pictures, Jawbreaker, Solitaire, Messaging, File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, Memory, Volume control, Landscape Mode support, WPA (Wi-Fi Protected Access); Bluetooth utility, Certificates Manager, Password setting, Today theme tool, Download Agent
- Additional hardware included Docking cradle, AC adapter, stylus
- Additional information –
 http://www1.us.dell.com/content/products/productdetails.aspx/axim_x51v?c= us&cs=19&l=en&s=dhs&~tab=viewstab#tabtop
- Estimated price \$499.00 Sale \$374.00



- Recommended accessories for Dell Axim X51
 - o 2200mAH second longer life battery
 - o Rhinoskin aluminum hardcase

DIGITAL PROJECTOR (Updated 8/09/2006)

This is a recommendation only. FMCSA does not limit procurements of digital projectors to the unit listed in this specification.

- Dell 3400MP
 - o Lumens 1500
 - o Weight 2.4 lbs
 - Resolution XGA (1024x768) w/ autosync to UXGA (1600x1200)
 - o Contrast 2100:1
 - Zoom/Focus Manual zoom and focus
 - o Picture size 31.7" 246"
 - Computer display compatibility XGA, SXGA, SVGA, VGA, UXGA
 - o Remote Full projector control, wireless
 - Warranty 2 year advanced exchange
 - o Additional information -

http://www.dell.com/content/products/productdetails.aspx/proj_3400mp?c=us&cs=04&l=en&s=bsd

o Estimated price \$1099.00



- * NOTE: The **Dell 2400MP** is also an excellent choice. It displays 3000 lumens and weighs 5.5 lbs. The projector is the same price but it is larger in size and weight.
- * NOTE 2: Interlink Electronics Point Navigator Wireless Remote Control is an excellent wireless remote for use with presentations. Adapter attaches to USB port and does not require additional software.



BARCODE SCANNER/READER (Updated 3/09/2007)

- Handheld 4600g
 - o USB HID POS Terminal 131 Compliant
 - o Weight 6.5 oz
 - o Terminal ID 131 Compliant
 - o Size 6.2" x 5.3" x 3.2"
 - Warranty 5 years

Additional information

http://www.handheld.com/Site.aspx/na/en/product_center/hardware/?product=35



* NOTE: This Barcode scanner/reader is for use with the Aspen roadside application.

DC POWER ADAPTERS FOR PANASONIC (Updated 3/09/2007)

This specification will be used when procuring a DC power adaptor for Panasonic CF-48, 50, CF-72, and W2 laptop computers. This adapter will operate the laptop and charge the battery in an automobile.

- Lind 80 Watt Adapter for Panasonic laptop computers
 PA1555-655
 - Compatibility –CF01, CF17, CF18, CF19, CF25, CF27, CF28, CF29, CF30, CF33, CF34, CF35, CF37, CF45, CF47, CF48, CF50, CF51, CF61, CF62, CF63, CF71, CF72, CF73, R1, R4, R5, T1, T2, T4, T5, W2, W4, W5, Y2, Y4, Y5
 - o Weight 13 oz
 - o Size 5.0 x 3.0 x 1.0
 - o Input Voltage 11 to 16 Vdc
 - o Input Noise Filter
 - o Output Voltage 15.6 Vdc
 - Output Current 5.5 amps (max)
 - o Connector MP205 R/A
 - o Auto Input Cable 18 Inches
 - o Output Cable 36 Inches
 - o Internal Overtemperature Shut Down
 - Low Input Voltage Shut Down
 - High Input Voltage Shutdown
 - Automatic Shut Down Reset
 - Warranty 3 year, covers electronics, cables and connectors
 - Additional information: http://www.lindelectronics.com/cgi-bin/store/shop.cgi/!ORDERID!/aaa/PA1555-655/dbx_gen_detail_product



Estimated Price \$99.95

^{*} Please note this adapter can not be used in the airline in-seat power systems. The air in-seat power systems are limited to an output of only 75 Watts.

LAPTOP CARRYING CASE (Updated 5/11/2007)

Model unspecified, but should, at minimum, accommodate laptop, printer, and all accessories. Suggested manufacturers, include Tenba and Targus. Styles to consider include wheeled, over the shoulder portfolio, and backpack. Models to consider include:

Targus – Top-loading Air Universal	(\$ 99)
Targus – Port 3.1 Easyroller Case	(\$149)
Targus – Global Executive Universal Case	(\$129)

MEDIA TYPES (Updated 5/16/2007)

Recommended media types (floppy disk is no longer recommended, but continue to be serviceable):

- CD-RW Re-writable CD format, 700 MB capacity.
- CD-R Write-once CD format, 650 MB capacity.
- DVD-RW + -Re-writable DVD format, 4.7 GB capacity.
- Mini CD-R Ritek RiData Mini CD-R, 210 MB capacity.
- USB Flash Drives Solid state drive, nonvolatile Compact Flash memory, plugs into USB port, Re-writable, recommended capacity 512 MB or higher. These drives may be used with any Windows 2000/XP computer with a USB 1 or 2 drive. The recommended flash drive is SanDisk 256 MB Cruzer.
- flash memory, high consumption, An SD card is about the weighs approximately by the HP IPAQ PDA recommended SD Card



miniSD Card – (21.5 x 20 x 1.4 mm) A removable portable memory device cell phone, digital cameras, MP# intended for use in other devices. players among

Compact Flash II card – (43 x 36 x 5.5 mm) CF cards are nonvolatile solid state flash memory cards approximately the size of a matchbook.

Recommended used by the Canon removable storage. the SanDisk 1GB

to 32GB.



capacity 1 GB. CF cards are S45 digital camera for The recommended CF card is CompactFlash.

RS-MMC - Reduced Size multiMediaCard (24 x 18 x 1.5 mm) a smaller MMC card. can be used in any MMC or (SD) slot. Sizes available up to 4GB.

Memory Stick – (50 x 21.5 x 2.8 mm) A flash memory card format manly used in Sony and Sony Ericsson devices. Current models up to 8GB with potential availability up